

## THE INFLUENCE OF POSTEMERGENCE HERBICIDE ON THE MAIN YIELD COMPONENTS IN WHITE LUPIN (*Lupinus albus* L.) – cv. “RUXANDRA”

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### Abstract

White lupin (*Lupinus albus* L.) is an underutilized crop that started to become extremely interesting for bio and conventional farmers due the high protein content of the seeds and, mainly, due the nitrogen fixation capacity. Nowadays, challenging economic environment and changing climate conditions had led to a bust in fertilizers prices worldwide. Identification and utilization in crop rotation systems of crop with nitrogen fixation capacity is an optimal alternative. One of the biggest problem in the white lupin cultivation technology is caused by the special sensitivity of this species at postemergence herbicide. This sensibility makes weed control a very difficult task for farmers. In this paper we present results obtained in 2022 season at the Ezăreni Farm, Iasi, Romania. Principal yield components were studied and compared among postemergence herbicide variants. Comparative studies were done using the cultivar RUXANDRA, obtained and registered by us.

**Key words:** *Lupinus albus*, postemergence herbicide, biotic and abiotic stress